

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P383164

Luminaire Tested: **GLEON-SA5A-735-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383164  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA5A-735-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17972.3 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

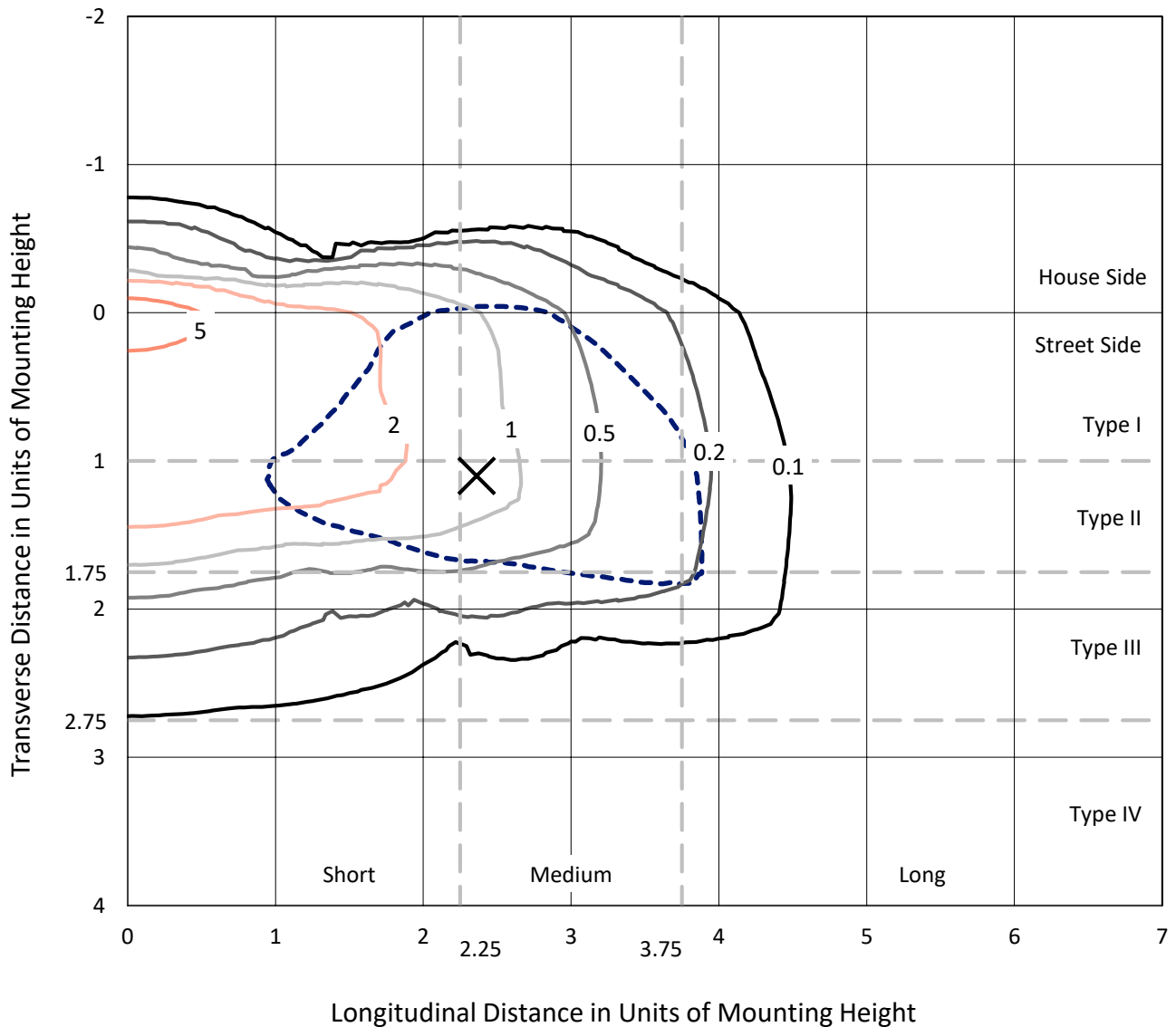
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

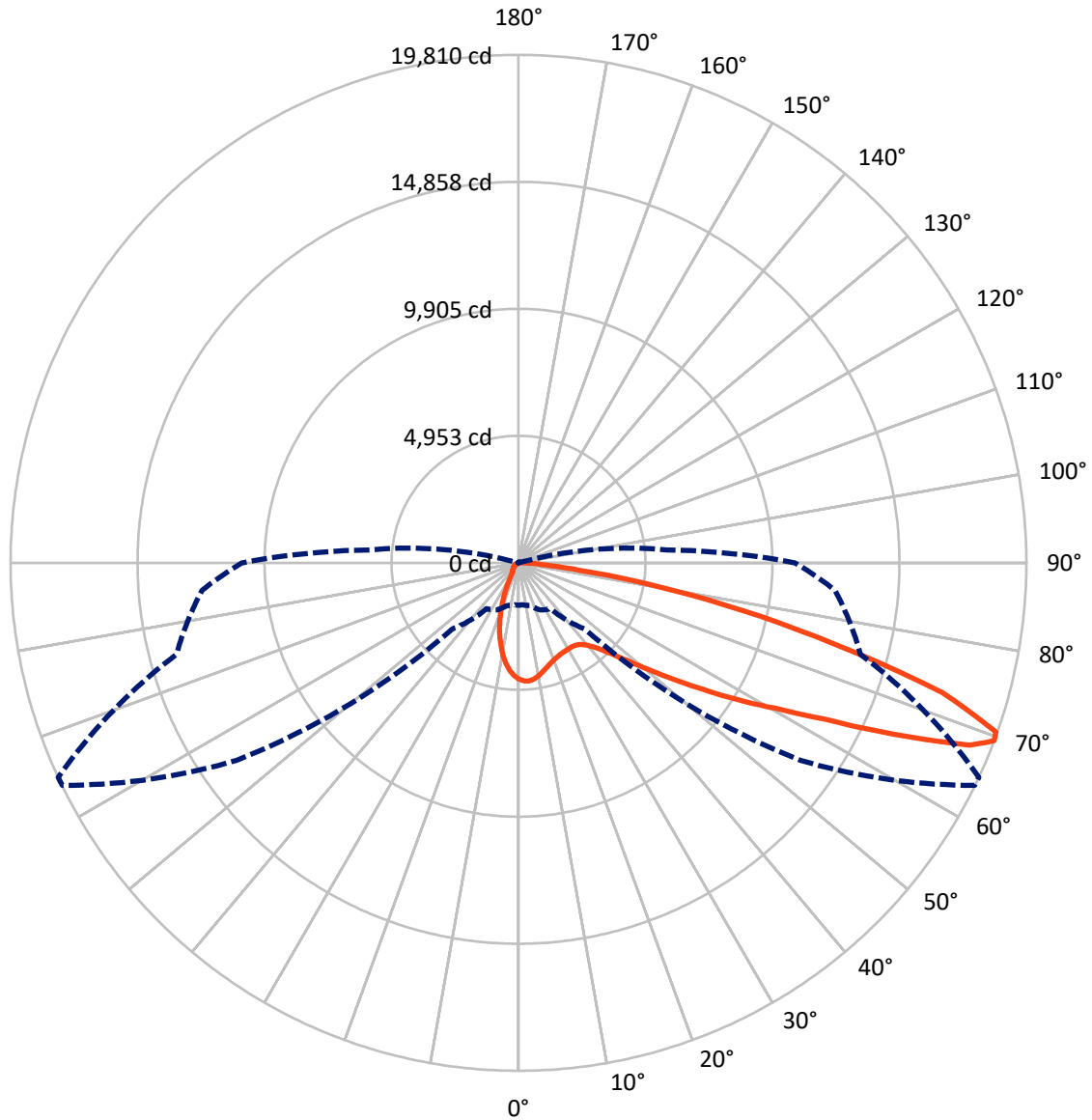
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2118.5	0.0	2118.5
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	15853.8	0.0	15853.8
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	17972.3	0.0	17972.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.8	2.1
10°-20°	831.3	4.6
20°-30°	1151.4	6.4
30°-40°	1605.5	8.9
40°-50°	2495.4	13.9
50°-60°	4006.2	22.3
60°-70°	4531.6	25.2
70°-80°	2661.5	14.8
80°-90°	309.6	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	17972.3	100.0
0°-180°	17972.3	100.0

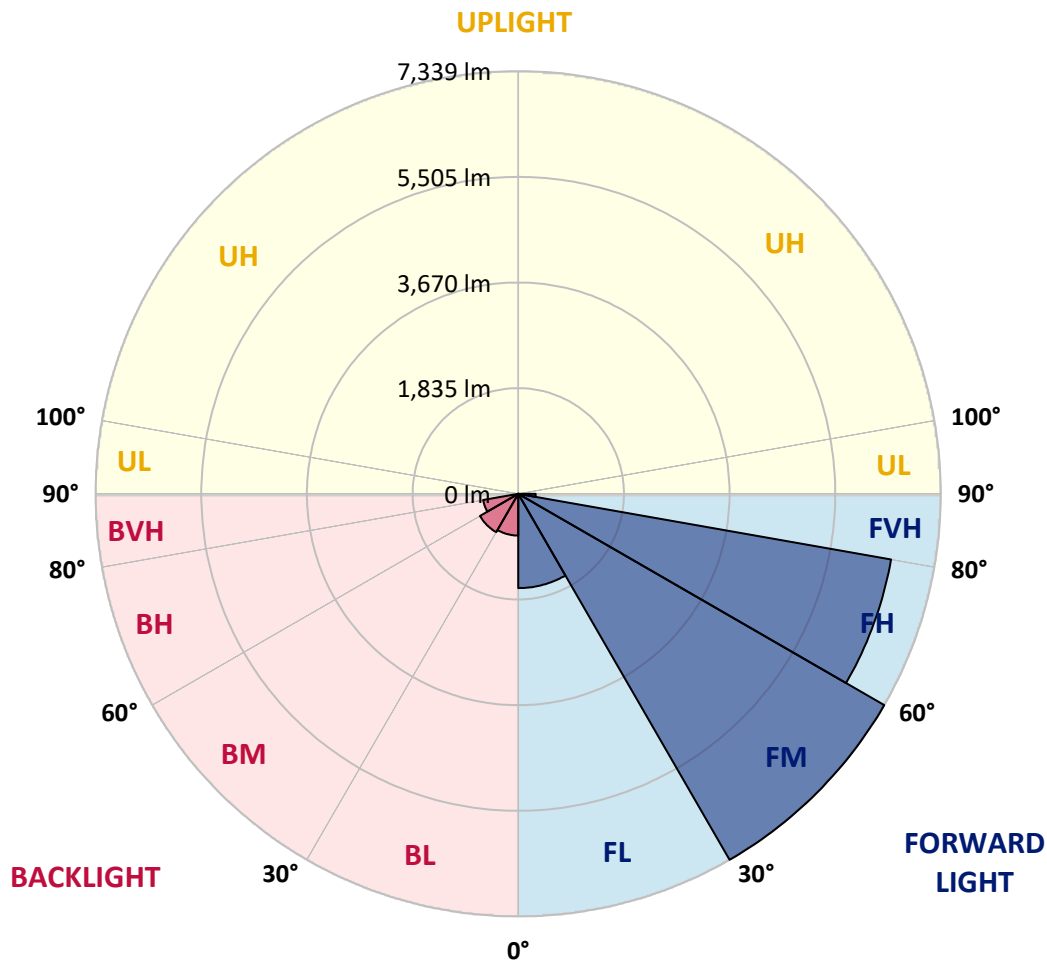


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1637.7	9.1			
FM (30°-60°)	7339.4	40.8			
FH (60°-80°)	6574.1	36.6			G3/7500
FVH (80°-90°)	302.6	1.7			G3/500
BL (0°-30°)	724.9	4.0	B2/1000		
BM (30°-60°)	767.7	4.3	B1/1000		
BH (60°-80°)	619.0	3.4	B2/1000		G2/1000
BVH (80°-90°)	7.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4541.7	4541.7	4541.7	4541.7	4541.7	4541.7	4541.7	4541.7	4541.7	4541.7	4541.7
2.5°	4581.9	4570.5	4579.7	4599.4	4609.3	4609.3	4616.9	4607.8	4610.9	4588.8	4556.9
5°	4295.3	4277.8	4302.8	4358.3	4426.8	4485.4	4572.0	4617.7	4622.2	4623.0	4585.7
7.5°	3986.5	3970.5	4007.8	4073.2	4161.4	4270.1	4421.5	4553.8	4561.4	4632.9	4605.6
10°	3735.5	3724.1	3767.5	3837.4	3940.8	4062.6	4248.1	4432.1	4454.2	4612.4	4602.5
12.5°	3536.2	3527.1	3568.2	3648.9	3754.5	3889.1	4083.1	4296.8	4326.4	4566.0	4587.3
15°	3391.0	3389.5	3423.7	3501.3	3618.4	3743.9	3942.4	4171.3	4205.5	4515.8	4585.0
17.5°	3315.0	3317.2	3342.4	3408.5	3508.9	3633.6	3823.7	4065.6	4102.8	4471.0	4596.4
20°	3307.4	3309.7	3323.3	3360.6	3442.0	3552.3	3727.1	3976.6	4015.3	4437.4	4614.6
22.5°	3374.3	3372.8	3376.6	3372.8	3418.4	3502.1	3663.3	3908.1	3953.0	4415.4	4629.1
25°	3502.8	3500.6	3499.0	3470.9	3440.5	3485.3	3636.7	3869.4	3911.9	4399.4	4637.4
27.5°	3681.6	3680.0	3677.7	3631.4	3540.1	3511.9	3639.7	3854.9	3890.7	4386.5	4635.9
30°	3916.5	3927.1	3924.1	3859.5	3717.2	3593.4	3671.6	3847.3	3878.5	4361.4	4620.0
32.5°	4192.6	4213.9	4230.6	4161.4	3983.5	3754.5	3745.4	3855.7	3878.5	4342.4	4591.0
35°	4479.3	4506.6	4568.2	4543.9	4309.7	3997.2	3872.4	3905.9	3924.9	4353.0	4577.3
37.5°	4761.4	4794.1	4928.0	4998.7	4737.1	4318.1	4070.1	4029.9	4039.7	4417.7	4592.6
40°	5089.2	5138.6	5341.7	5455.8	5247.4	4747.7	4366.0	4242.7	4246.6	4559.9	4663.3
42.5°	5519.6	5570.6	5790.4	5969.1	5822.3	5290.7	4767.5	4568.2	4564.5	4826.1	4829.9
45°	6044.3	6097.6	6325.0	6523.4	6457.3	5934.1	5281.6	5043.6	5039.0	5245.8	5145.5
47.5°	6639.0	6691.6	6894.6	7099.1	7170.7	6685.4	5936.4	5692.2	5681.6	5829.2	5633.0
50°	7149.3	7183.6	7370.7	7646.0	7968.4	7608.7	6750.8	6515.9	6504.4	6604.1	6348.6
52.5°	7334.9	7354.7	7544.8	7930.4	8735.0	8858.9	7820.9	7518.2	7509.9	7553.2	7301.5
55°	6959.2	6995.0	7228.4	7800.3	9150.2	10271.9	9171.5	8759.3	8696.2	8602.7	8297.7
57.5°	5935.6	5992.6	6243.6	7004.1	8956.3	11392.9	11156.4	10163.2	10070.4	9498.5	9107.6
60°	4447.3	4517.4	4725.6	5546.2	7921.2	11792.2	13325.3	11727.5	11518.4	10211.8	9852.1
62.5°	3051.8	3086.9	3228.3	3762.9	5833.7	11138.1	15139.8	13822.7	13440.9	10987.5	10657.5
65°	2330.9	2343.0	2400.9	2584.9	3473.9	9047.6	15861.6	16587.0	16125.5	11915.3	11493.2
67.5°	1878.4	1868.5	1948.3	2211.5	2326.4	5519.6	15019.7	19202.4	18986.3	13155.7	12334.3
69°	1656.4	1642.7	1724.0	2029.7	2184.9	3648.9	13427.2	19796.3	19810.0	13810.5	12392.2
70°	1490.6	1499.7	1580.3	1921.8	2137.0	2864.0	11906.2	19644.9	19753.0	14055.4	12045.4
72.5°	995.5	1019.9	1181.8	1595.5	2054.8	2167.4	7188.9	16857.8	17273.0	13504.0	10334.3
75°	561.3	579.5	771.9	1203.1	1936.2	2063.9	3797.1	12419.6	12821.1	11292.5	7969.2
77.5°	275.3	285.1	436.5	776.4	1619.1	1966.6	2153.7	8436.1	8894.7	7370.7	4507.4
80°	116.4	121.7	218.3	479.1	1157.4	1876.9	1599.3	5191.9	5248.9	2887.6	1200.9
82.5°	44.9	46.4	92.0	298.8	735.4	1463.2	1337.7	2461.7	2402.4	543.7	273.8
85°	5.3	6.1	33.4	179.5	409.1	752.9	1086.7	1060.8	981.8	108.0	140.7
87.5°	0.0	0.0	2.2	54.8	121.7	352.9	565.1	440.3	396.9	35.0	73.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4541.7	4541.7	4541.7	4541.7	4541.7	4541.7	4541.7	4541.7	4541.7	4541.7	4541.7
2.5°	4530.2	4522.7	4481.6	4422.2	4366.0	4296.0	4229.0	4188.8	4156.8	4135.5	4160.7
5°	4542.4	4509.0	4384.2	4224.5	4067.9	3891.4	3727.1	3587.9	3533.3	3472.4	3499.7
7.5°	4538.6	4475.5	4251.1	3966.7	3679.2	3381.9	3100.5	2883.8	2771.3	2661.0	2689.1
10°	4519.6	4413.1	4073.2	3651.9	3221.5	2794.1	2394.8	2091.3	1921.8	1768.2	1790.2
12.5°	4477.8	4329.5	3863.3	3291.4	2715.7	2152.2	1684.5	1295.9	1087.5	995.5	1006.9
15°	4452.7	4248.1	3641.2	2926.4	2175.7	1499.0	1029.7	765.8	670.7	640.3	644.2
17.5°	4440.5	4169.8	3411.5	2508.8	1623.7	954.4	665.4	587.1	566.6	561.3	562.7
20°	4428.3	4090.7	3175.1	2095.9	1118.7	641.8	546.8	524.0	516.4	509.6	511.0
22.5°	4407.8	4014.6	2921.1	1677.6	754.4	520.9	492.8	470.7	454.8	446.4	447.9
25°	4382.7	3934.8	2661.7	1249.5	550.6	464.7	438.0	406.9	387.8	372.6	373.4
27.5°	4342.4	3836.7	2394.0	909.6	462.4	416.0	380.3	346.0	314.1	296.6	296.6
30°	4286.1	3725.6	2096.6	651.0	414.4	368.1	324.7	282.2	247.9	232.0	230.5
32.5°	4223.7	3610.0	1796.3	493.5	376.4	323.2	273.8	228.9	198.5	185.6	184.8
35°	4170.5	3485.3	1496.6	413.7	338.4	279.8	225.9	187.8	163.5	152.9	152.1
37.5°	4136.3	3360.6	1204.6	369.6	304.2	239.6	189.4	155.1	137.7	129.3	128.6
40°	4130.9	3267.9	937.7	336.1	272.3	203.8	158.2	131.5	115.6	106.5	105.7
42.5°	4200.2	3214.6	719.4	308.0	239.6	172.6	134.6	112.5	95.9	86.7	86.0
45°	4381.9	3231.4	553.6	282.9	206.9	146.0	114.1	93.5	78.3	71.4	70.0
47.5°	4713.5	3347.0	440.3	257.9	175.7	124.0	97.3	77.6	64.6	57.8	57.0
50°	5303.7	3618.4	368.1	230.5	146.8	105.7	80.6	63.2	52.4	46.4	45.6
52.5°	6086.9	4102.1	328.6	203.8	121.7	89.7	66.1	50.2	41.1	36.5	35.8
55°	6950.8	4687.6	302.7	174.9	99.6	74.5	52.4	39.6	32.0	28.1	26.6
57.5°	7794.3	5194.9	278.3	146.8	82.9	60.8	41.8	31.2	25.1	21.3	20.5
60°	8569.2	5661.1	250.2	117.8	67.7	47.9	32.7	24.3	19.7	15.9	15.9
62.5°	9398.8	6021.5	211.5	92.0	55.5	36.5	26.6	22.1	15.9	13.7	12.9
65°	10278.0	6289.3	165.8	71.4	43.3	27.4	22.1	22.8	12.9	9.9	9.1
67.5°	10927.5	6236.1	122.4	56.3	33.4	21.3	21.3	24.3	11.4	7.6	6.8
69°	10784.5	5803.3	102.7	48.6	28.9	18.3	19.7	24.3	10.6	6.8	6.1
70°	10370.1	5324.2	90.5	43.3	25.9	16.8	19.0	23.6	9.9	6.8	6.1
72.5°	8636.1	4010.0	70.7	32.7	20.5	13.7	15.9	20.5	9.9	6.8	5.3
75°	6496.1	2566.7	54.0	23.6	15.2	10.6	12.2	15.2	9.9	6.1	5.3
77.5°	3534.8	925.5	38.8	15.9	10.6	8.4	8.4	11.4	9.1	4.6	3.1
80°	908.8	232.7	24.3	10.6	8.4	6.1	5.3	7.6	5.3	0.7	0.0
82.5°	224.3	52.4	12.9	7.6	6.1	2.2	2.2	3.8	2.2	0.0	0.0
85°	123.2	25.9	8.4	5.3	3.1	0.0	0.0	0.7	0.0	0.0	0.0
87.5°	63.2	7.6	2.2	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)